

Application of MicroTCA.4 for Diagnostics at the European XFEL and at FLASH

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The accelerators of FLASH and of the European XFEL deliver electron bunches in bursts of several hundred pulses with MHz repetition rates every 100ms. These bunches are distributed between different undulator beamlines to generate FEL pulses with few to hundred femtoseconds temporal width in the soft to hard x-ray regime. To run these high repetition rate FELs a large number of different fast detectors and diagnostics, regulation and feedback systems are required which are to a large extent read out or directly controlled by MTCA.4 hardware. This poster gives a few examples of the different MTCA-related applications implemented at both facilities.

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